

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
12-23-14

API No. 15
15-129-10347-0001

Company MERIT ENERGY COMPANY			Lease WINTER 'C'		Well Number 1
County MORTON	Location 2310' FSL & 2310' FWL	Section 30	TWP 33S	RNG (E/W) 42W	Acres Attributed 640
Field GREENWOOD		Reservoir WABUNSEE/TOPEKA/TORONTO	Gas Gathering Connection REGENCY		
Completion Date 5/6/1953 (4/9/14 RECOMP)		Plug Back Total Depth 3213	Packer Set at NONE		
Casing Size 5.5	Weight 14.0	Internal Diameter 5.012	Set at 3319	Perforations 2650	To 3210
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 3204	Perforations	To
Type Completion (Describe) COMINGLED GAS		Type Fluid Production WATER	Pump Unit or Traveling Plunger? Yes / No YES-PUMP		
Producing Thru (Annulus / Tubing) ANNULUS		% Carbon Dioxide 0.0940	% Nitrogen 26.4690	Gas Gravity - G _p .773	
Vertical Depth(H) 2930		Pressure Taps FLANGE		(Meter Run) (Prover) Size 4.026"	
Pressure Buildup: Shut in 12-19-14 20 at 1100 (AM) (PM)		Taken 12-22-14 20 at 1100 (AM) (PM)			
Well on Line: Started 12-22-14 20 at 1100 (AM) (PM)		Taken 12-23-14 20 at 1100 (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in **72.0** Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter Prover Pressure psig (P _m)	Pressure Differential In Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						17.2	31.6			72.0	
Flow	1.000	1.0	16.5	40	75	3.4	17.8			24.0	20

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (F _o) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _n
4.8741	15.40	15.94	1.1374	1.0198	1.0013	90.2	NONE	0.773

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = **1.0** ; (P_w)² = **0.3** ; P_o = **56.6** % (P_c - 14.4) + 14.4 = **31.6** ; (P_a)² = **0.207**
(P_o)² = _____

(P _e) ² - (P _a) ² or (P _e) ² - (P _o) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _a ² 2. P _e ² - P _o ² divided by: P _e ² - P _w ²	LOG of formula 1, or 2, and divide by: $P_e^2 - P_w^2$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
0.79	0.68	1.166	0.0668	0.850	0.0568	1.1397	102.84

Open Flow **103**

Mcfd @ 14.65 psia

Deliverability

Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 23 day of DECEMBER, 20 14

Copy to KCC Wichita

Received
KANSAS CORPORATION COMMISSION

Precision Wireline & Testing

Witness (if any)

For Company

DEC 29 2014

Checked by

For Commission

CONSERVATION DIVISION
WICHITA, KS

Merit Energy - Janna Burton - Janna Burton